

ABSTRACT

A DC motor with an armature coil for generating rotational torque capable of improving motor efficiency and generated torque while achieving size and thickness reductions, comprising magnets 23A to 23D and armature coils 31A to 31C, 32A to 32C, wherein, for example, a magnet portion is used as a rotor 12. A stator 13 at an armature coil portion comprises an inner coil group formed by arranging, parallel with each other, hollow inner coil bodies 31A to 31C on peripheral side surfaces of a magnet yoke 22 and the magnets 23A to 23D as a virtual disc by a prescribed quantity and an outer coil group formed by arranging, parallel with each other, a prescribed number of hollow outer coil bodies 32A to 32C while covering the inner coil group. The peripheral side surface of the inner coil group is made externally flush with the peripheral side surface of the outer coil group.